1. A group of mountain climbers began an expedition with 100 pounds of food. They plan to eat 5 pounds per day.
a) Write an equation to represent the amount of food remaining after each day.
b) How many days will the food last?
c) Graph the situation.
d) What does the $y$-intercept represent?
e) What does the $x$-intercept represent?
2. Mike has $\$ 400$ and plans on spending $\$ 50$ each week.
a) Write an equation to represent the amount of money remaining after each week.
b) How many weeks before he runs out of money?
c) Graph the situation.
d) What does the $y$-intercept represent?
e) What does the $x$-intercept represent?
3. Kimball High Football team charges $\$ 5$ for student tickets and $\$ 8$ for those that are not students. In total they made $\$ 520$ at a home game.
a) Write a linear equation to represent the situation.
b) Graph the situation.
c) What does the y-intercept represent?
d) What does the $x$-intercept represent?
4. A company spends $\$ 400$ on Christmas trees and Christmas Lights. Each tree costs $\$ 20$ and each light costs $\$ 5$.
a) Write a linear equation to represent the situation.
b) Graph the situation.
c) What does the $y$-intercept represent?
d) What does the $x$-intercept represent?
